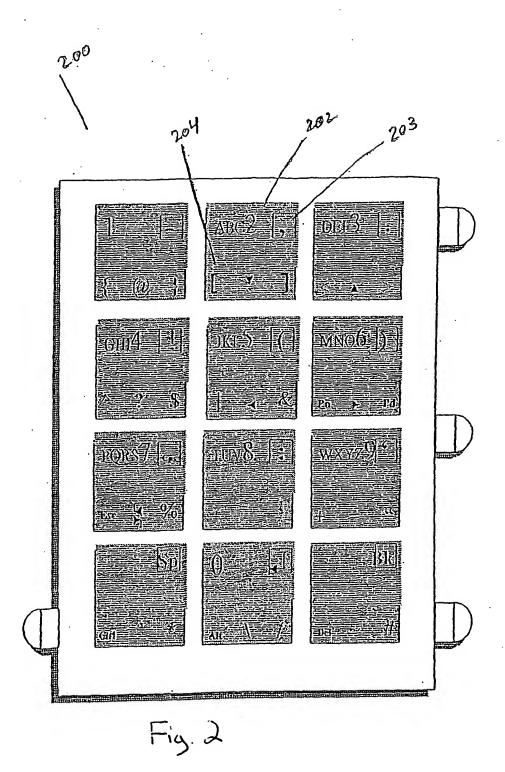
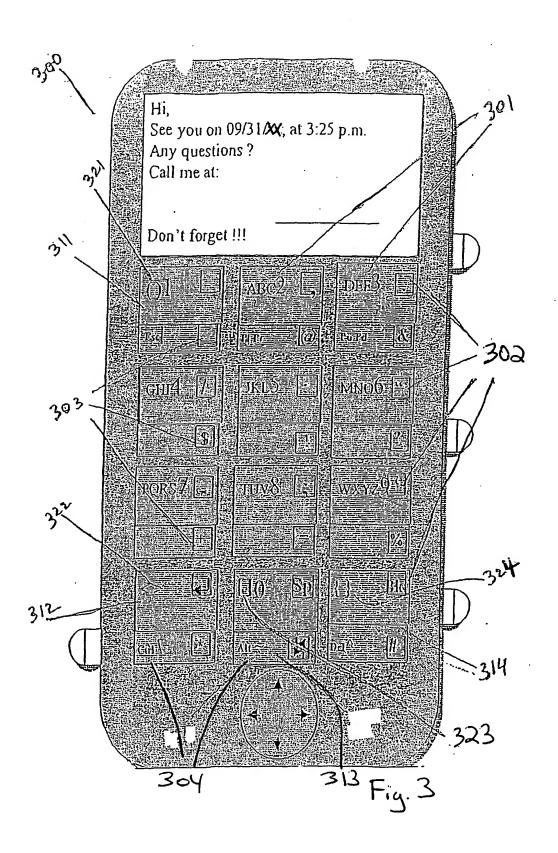
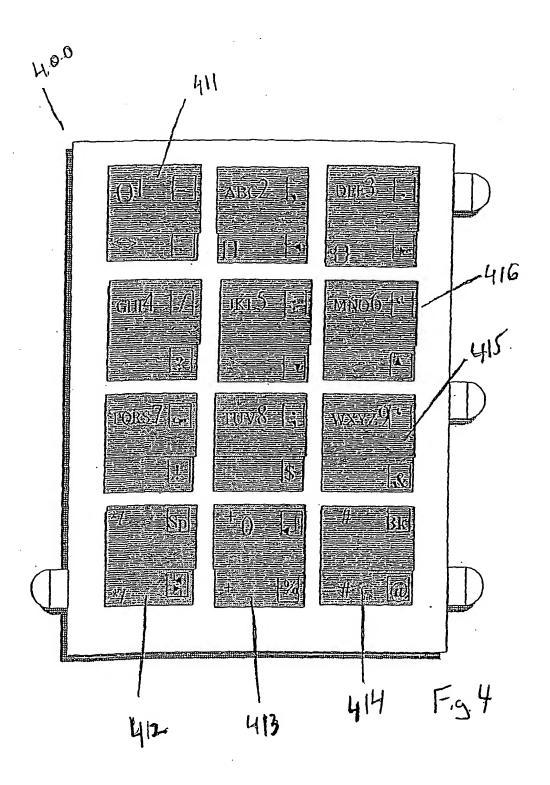


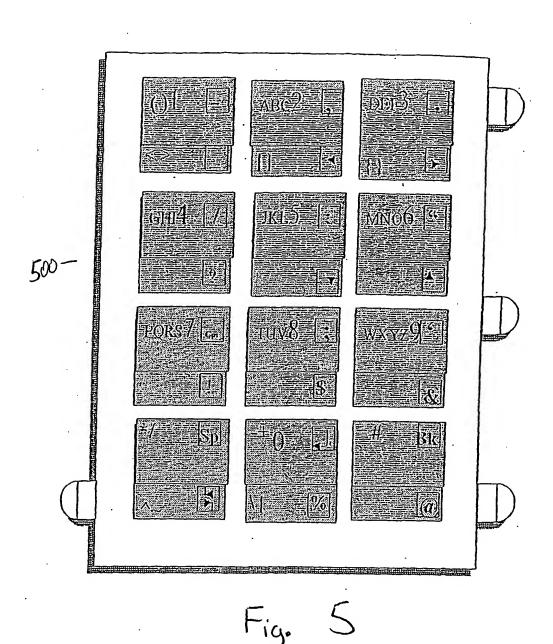
Fig. 1

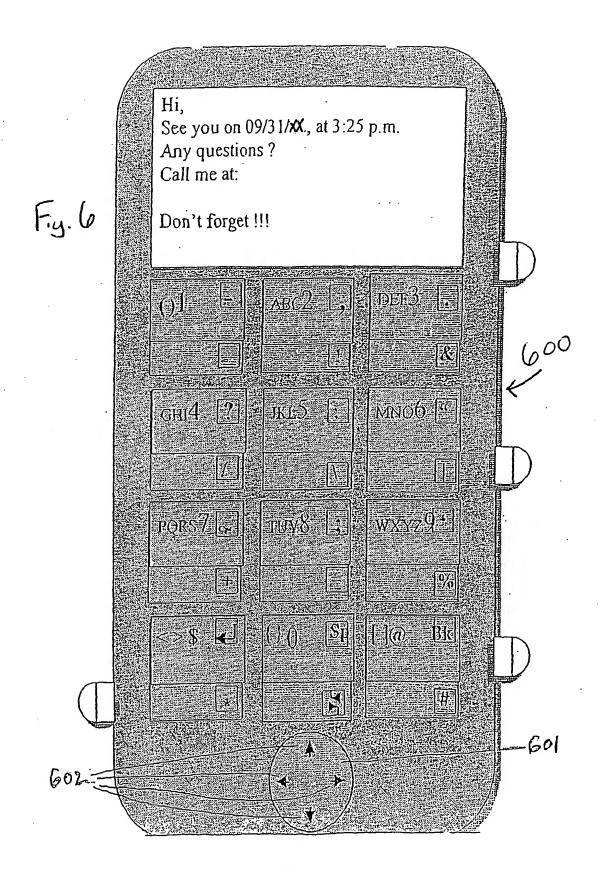


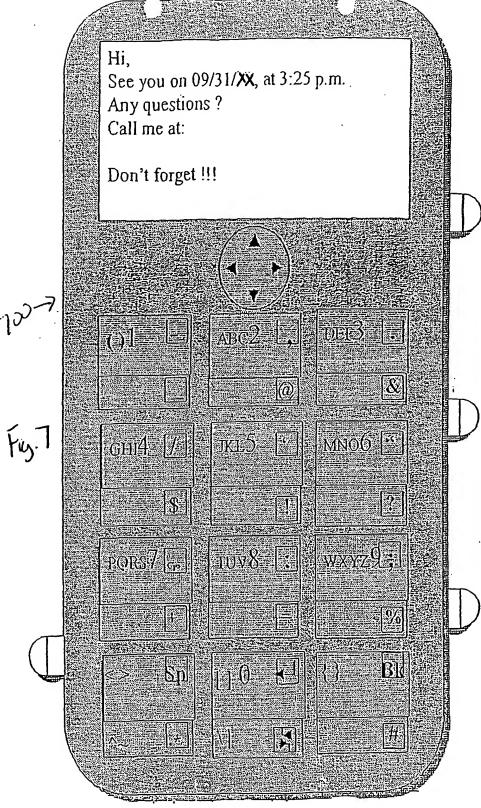
2/81

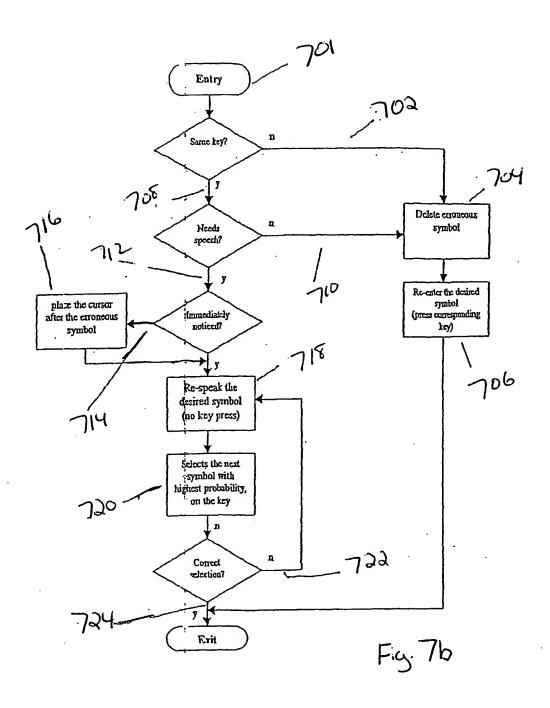


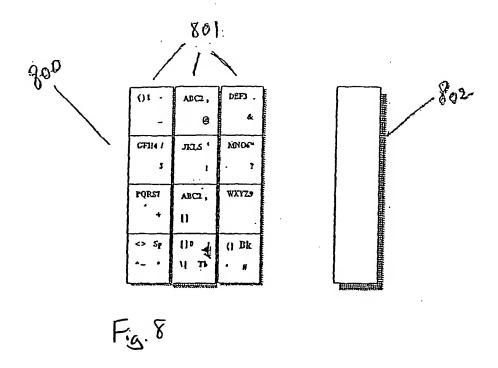


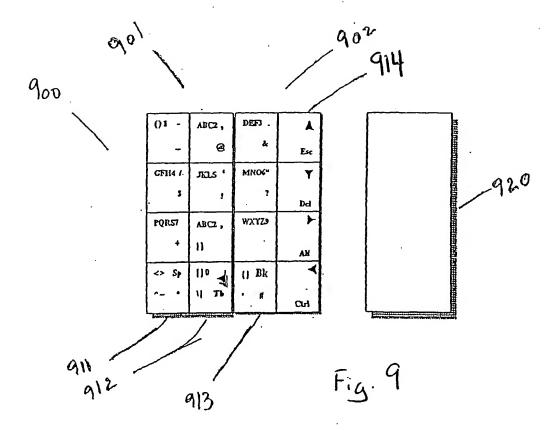


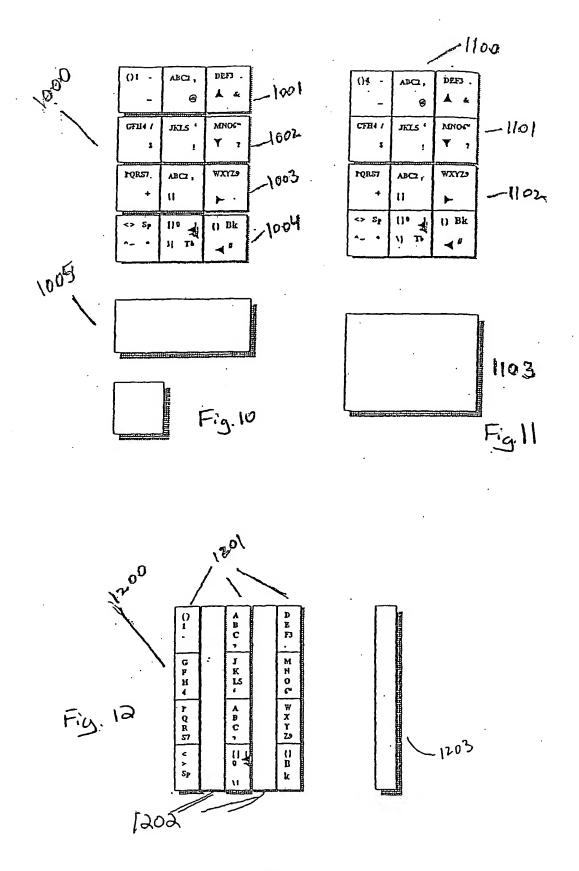












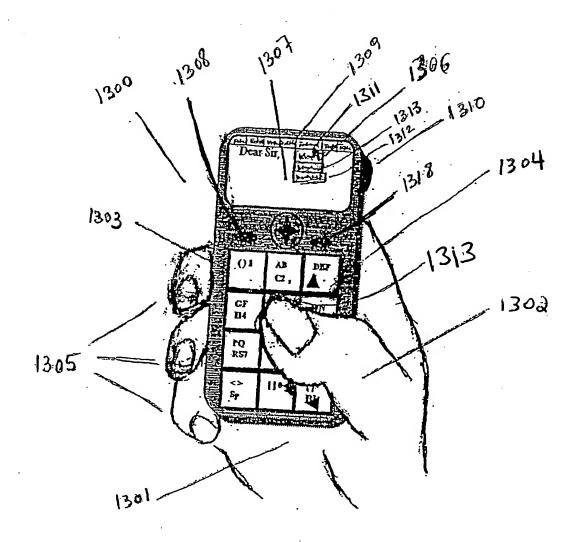
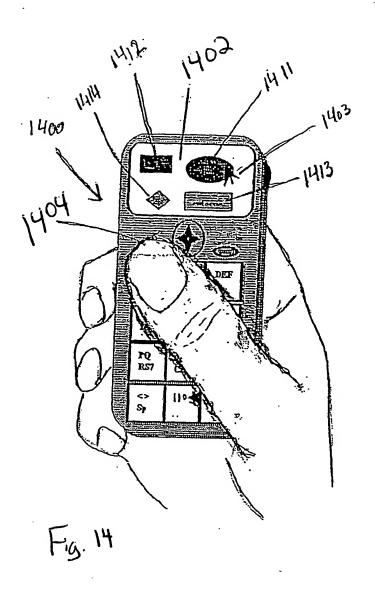
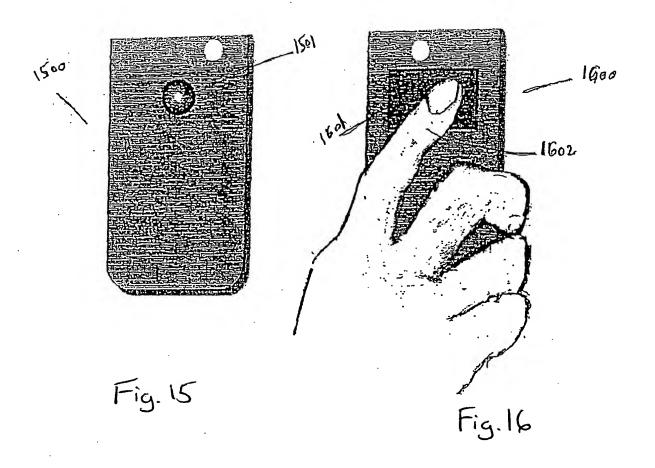
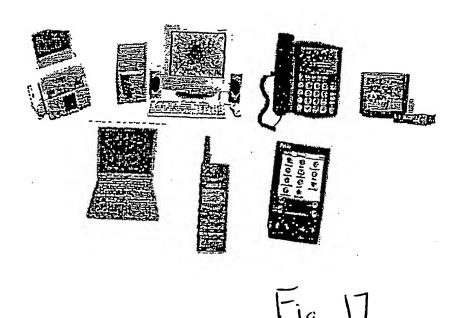
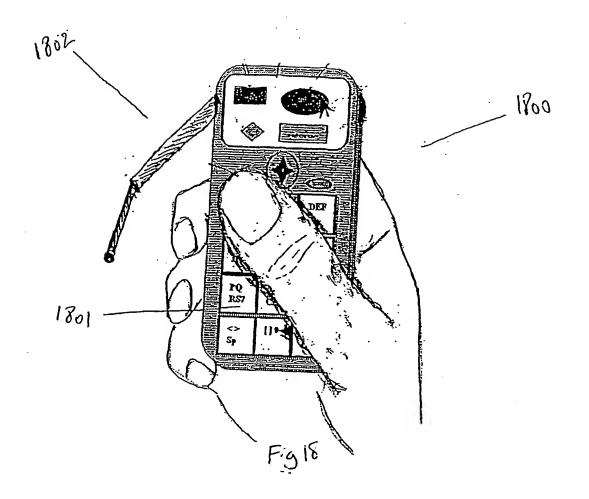


Fig. 13









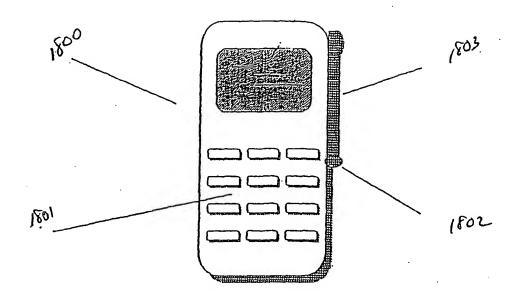
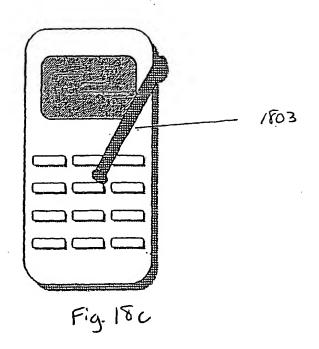


Fig ITB



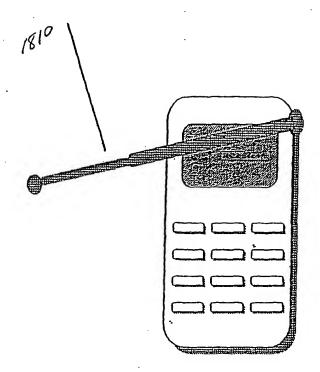
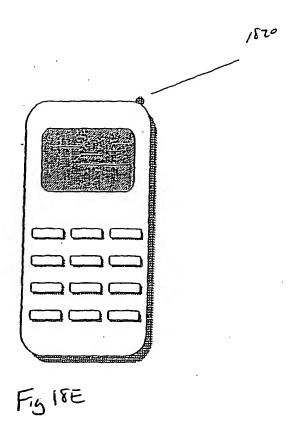
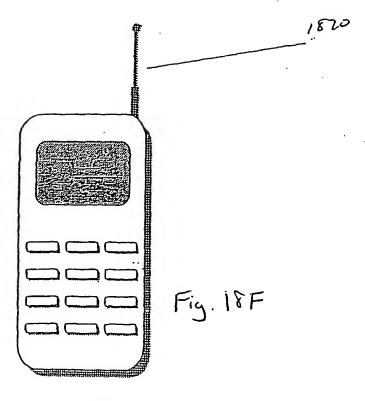
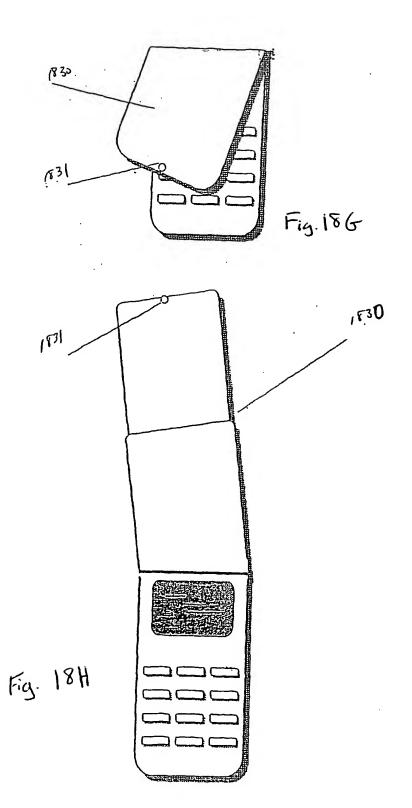
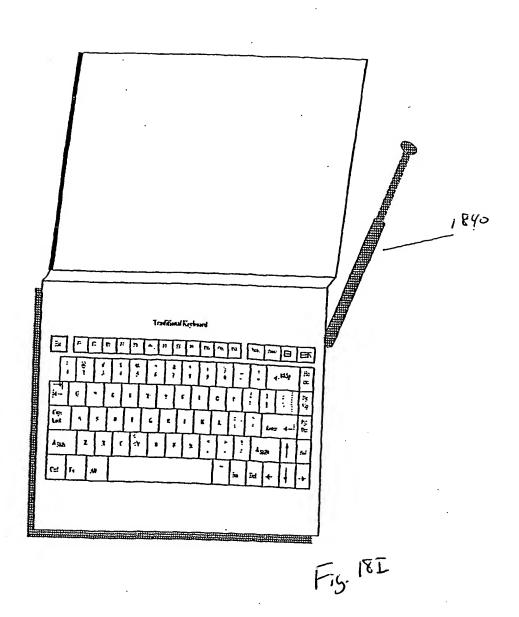


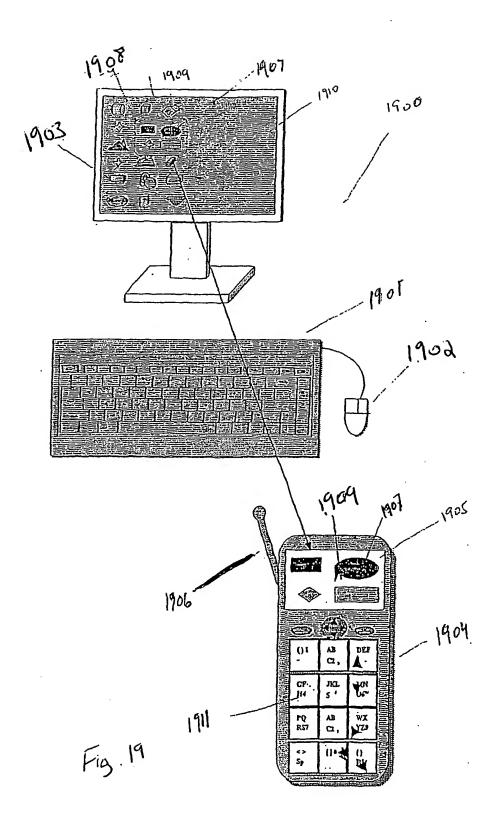
Fig 18D

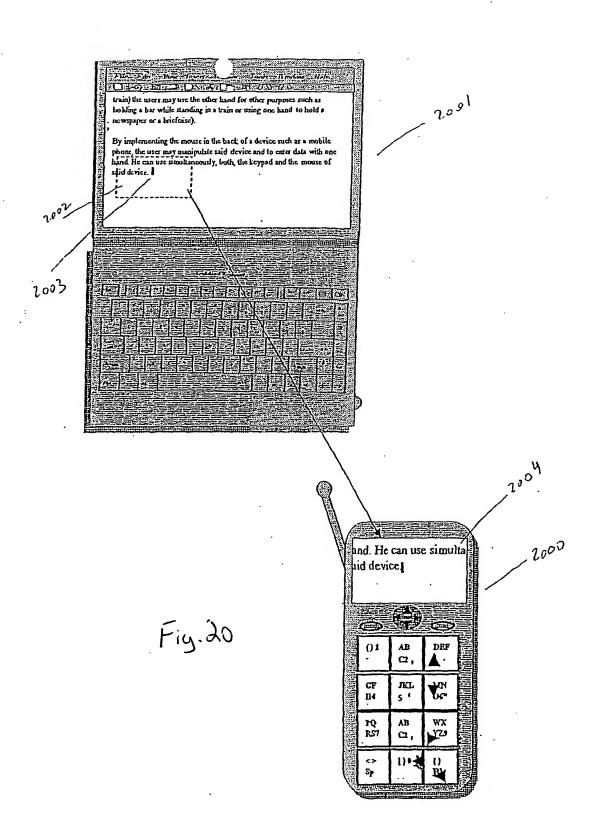


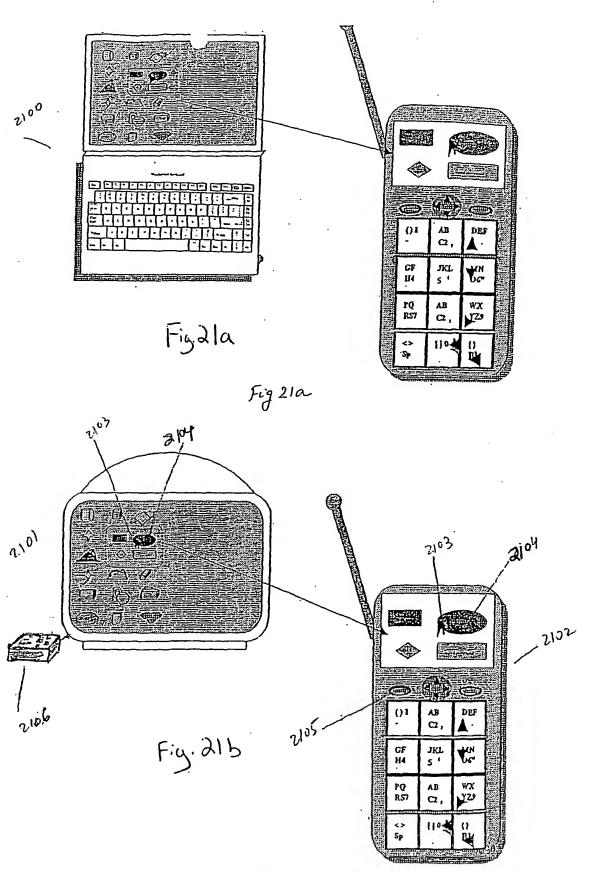


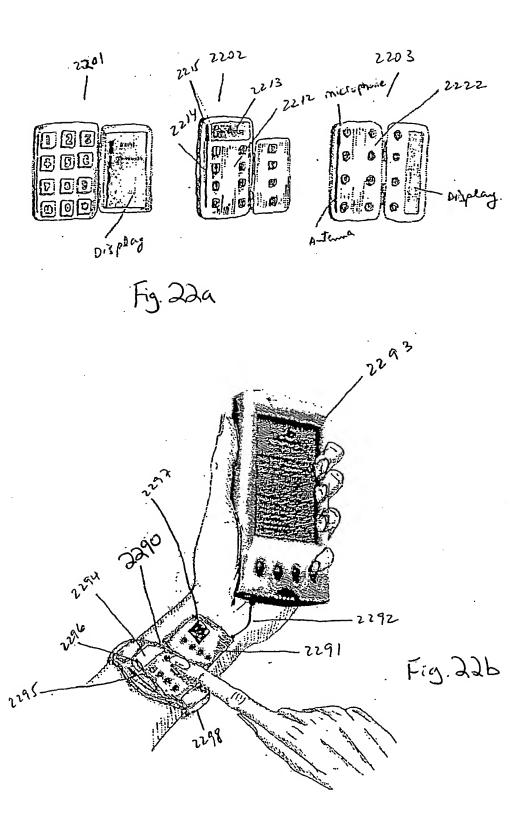


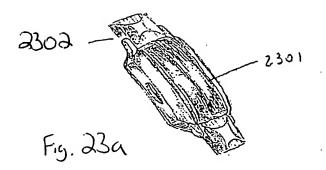


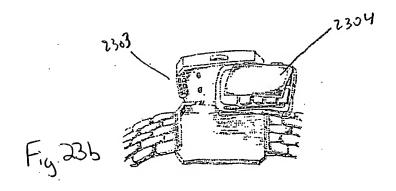












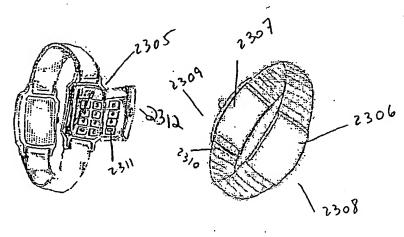
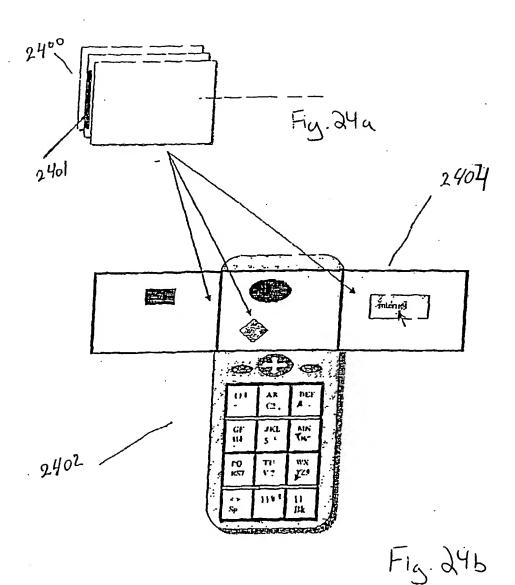
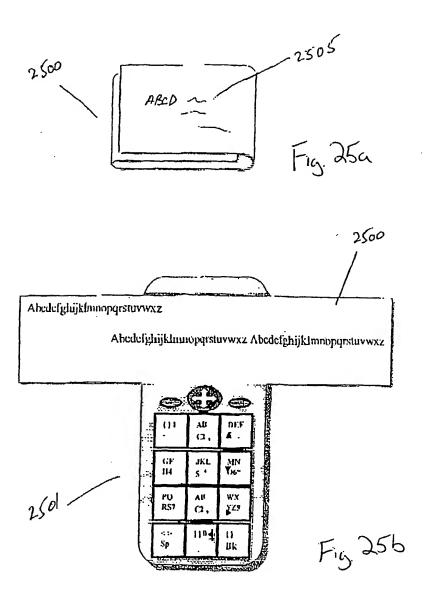


Fig. 23c



)



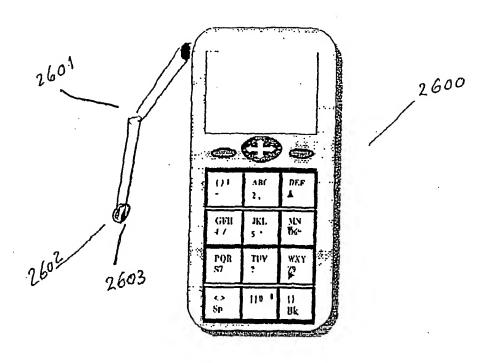
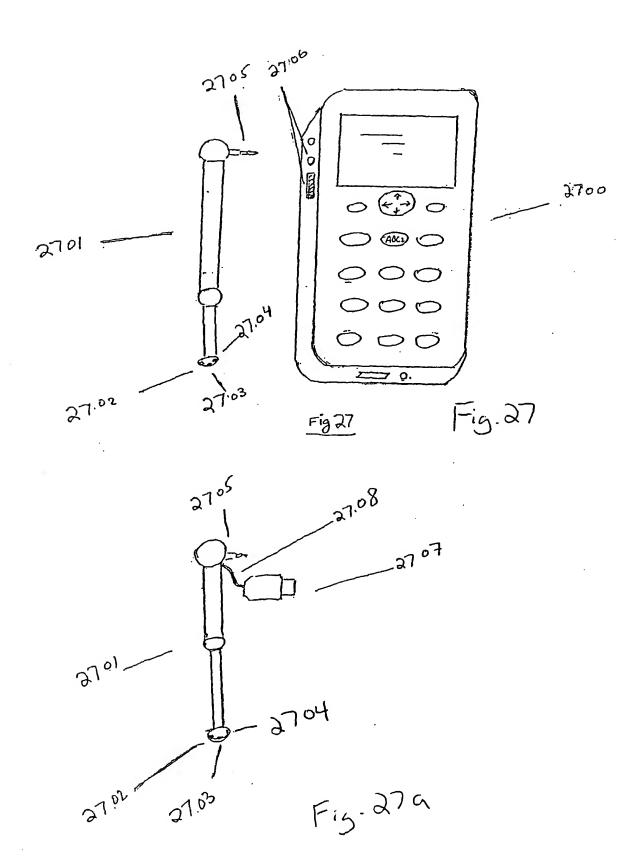
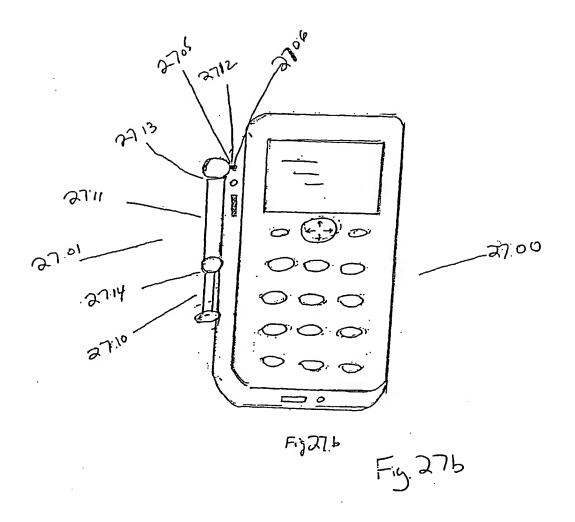
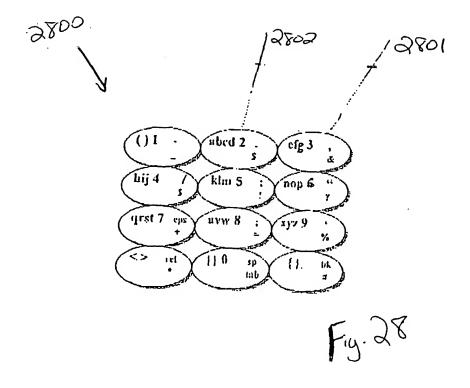
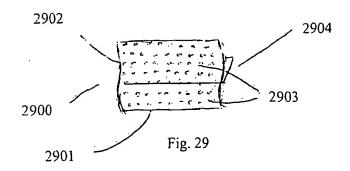


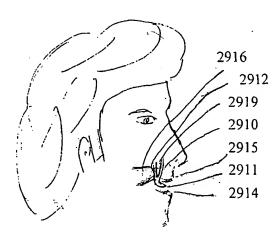
Fig. 26











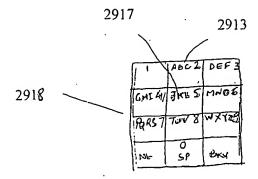
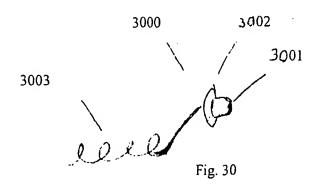
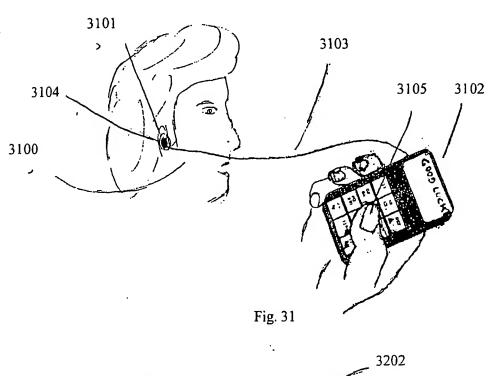
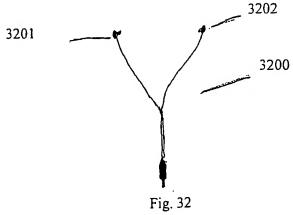
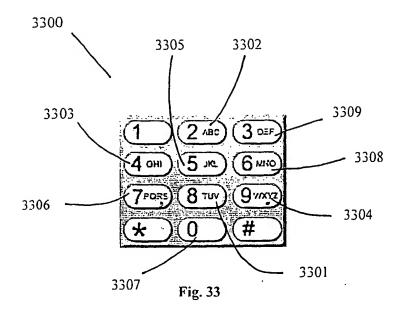


Fig. 29a









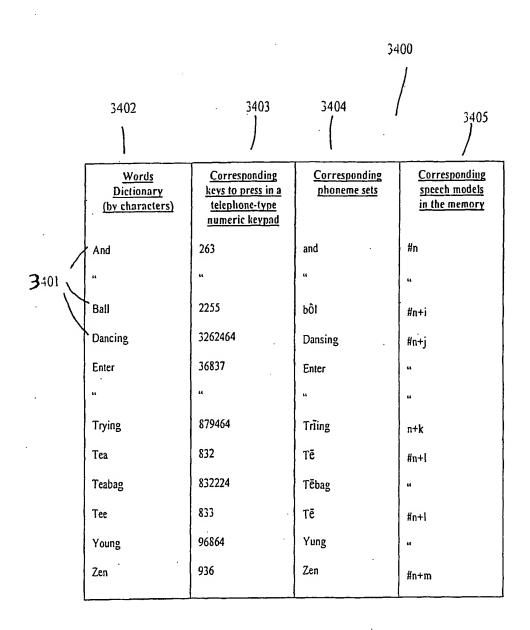
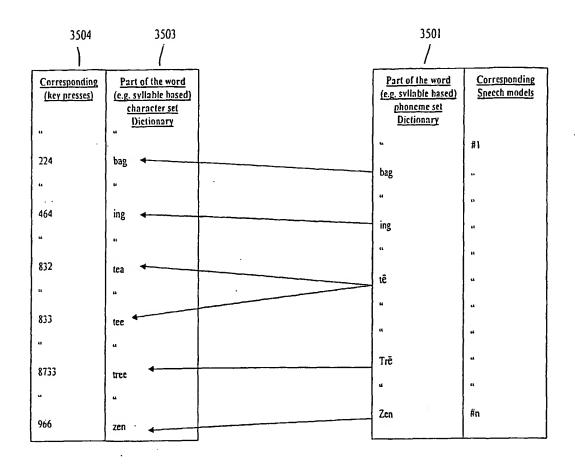
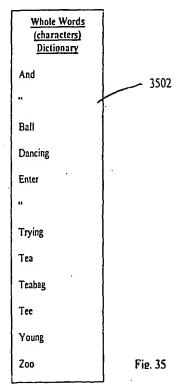


Fig. 34





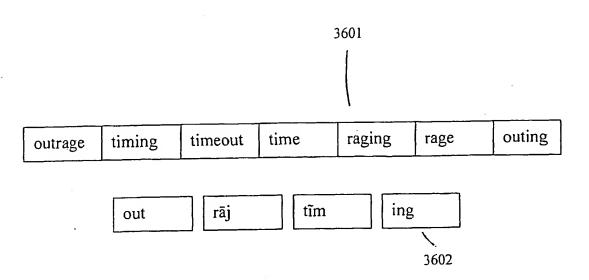


Fig. 36

A	В	С
Speech/phonemes	Characters sets having	words having portions (e.g. syllables)
at the beginning of	pronunciation at least	with starting:
a syllable in a word	substantially similar	phoneme-sets of A or
	to the phonemes set of A	characters sets of B
ta	ta,	tap, tango
tā	ta, tai,	take, tailor
tā	tas,	taste
tô	ta, tau	talk, taupe
top	top	Тор
te	te	tent
ti	ti į	tilt
tip	tip	tippet
tī	ti, tie, ty	re-tire ("ti" in the beginning of the
		middle syllable), tiebreak, type
tē .	t, tee, tea, ty	t, teeth, team, security
tōō	to, too, two	to, tooth, two
trī	tri, try	tried, re-try
thi	thi, thir, thirst	thin, thirst, thirst
thrō	thro	throw
ing	in	trying

Fig. 37

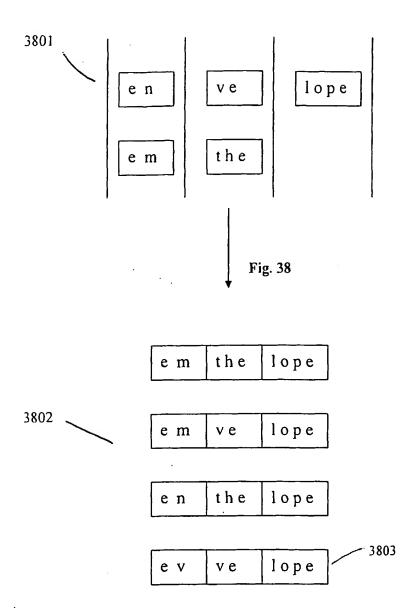


Fig. 39

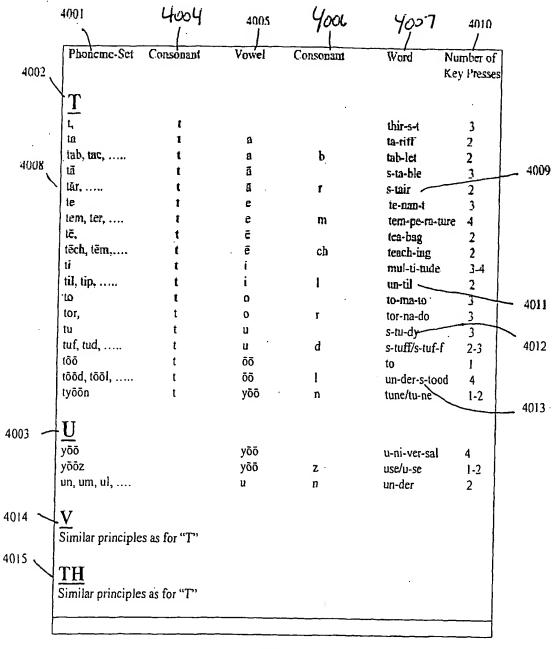


Fig. 40

Phoneme-Set	Consonant	Vowel	Word	Number of Key Pressees	\neg
$\underline{\mathbf{T}}$			•		
<u>^</u>			thi-r-s-t	4	
ta	•	a	ta-ri-f-f	4	1
tā	t	ā	s-ta-b-le	4	
te	t			4	1
tē,	t	e ē	te-na-n-t		1
ti	÷	i	tea-ba-g	3	+ 41
to	1	•	mu-l-ti-tu-de		1
เน		0	to-ma-to	3	1
tōō	•	u ōō	s-tu-dy	3	1
yōō	· ·		to	1	1
.,00	·	yōō .	tu-ne	2	1
<u>U</u>	vowei	consonant			
√ōōz	yōō		u-se	1	1
ın, um, ul,	u	n	u-se un-de-r	2 3	
				,	1
					1
V					}
imilar principle	on for "T"				1
mmer huncibie	22 42 101 1				
CET.					1
<u>CH</u>					
	s as for "T"				ſ

Fig. 41

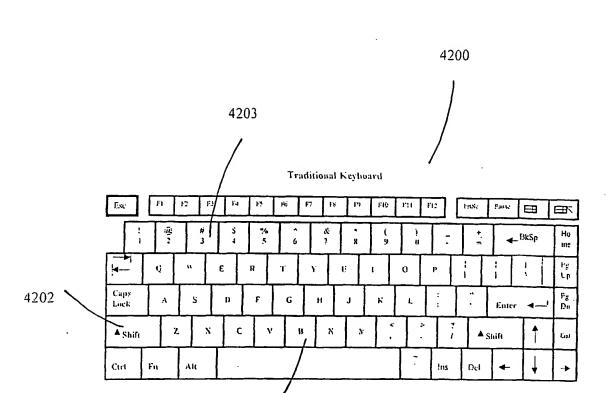


Fig. 42

4201

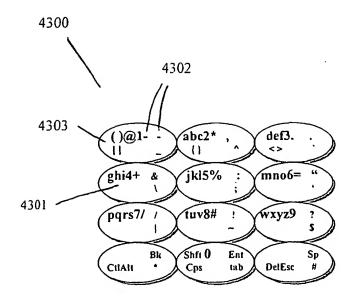


Fig. 43

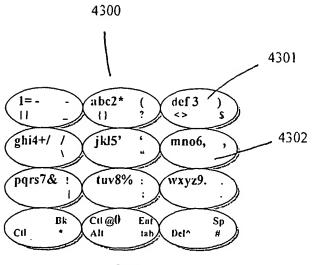


Fig. 43a

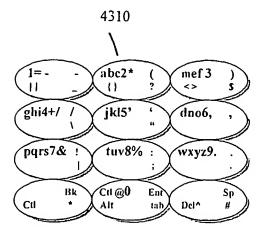


Fig. 43b

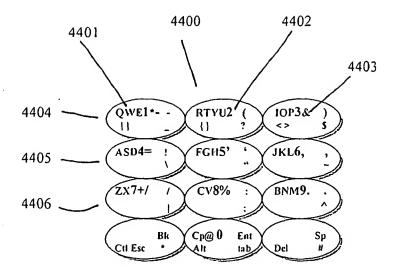


Fig. 44a

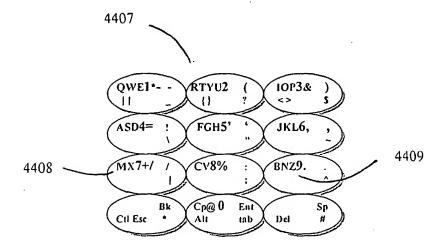


Fig. 44b

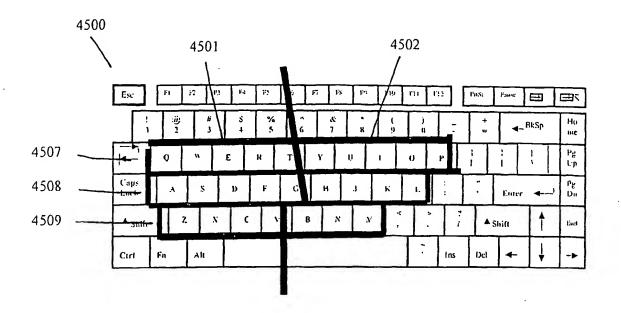


Fig. 45

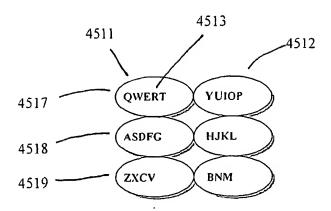


Fig. 45a

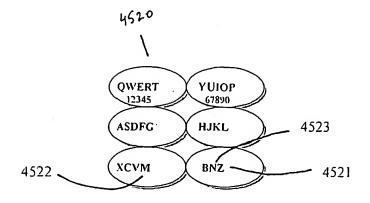


Fig. 45b

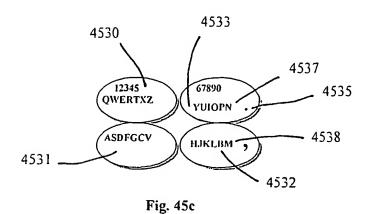




Fig. 45d

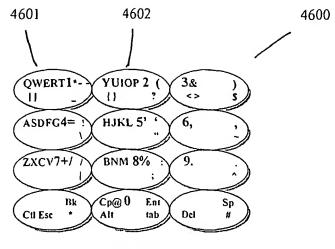


Fig. 46a

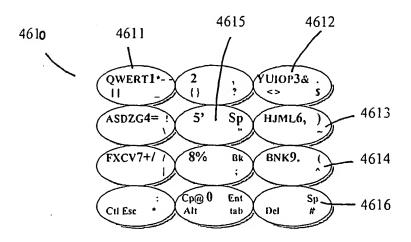


Fig. 46b

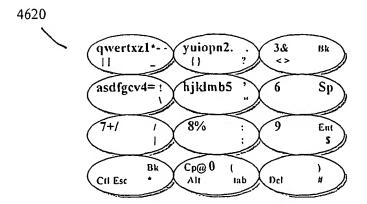
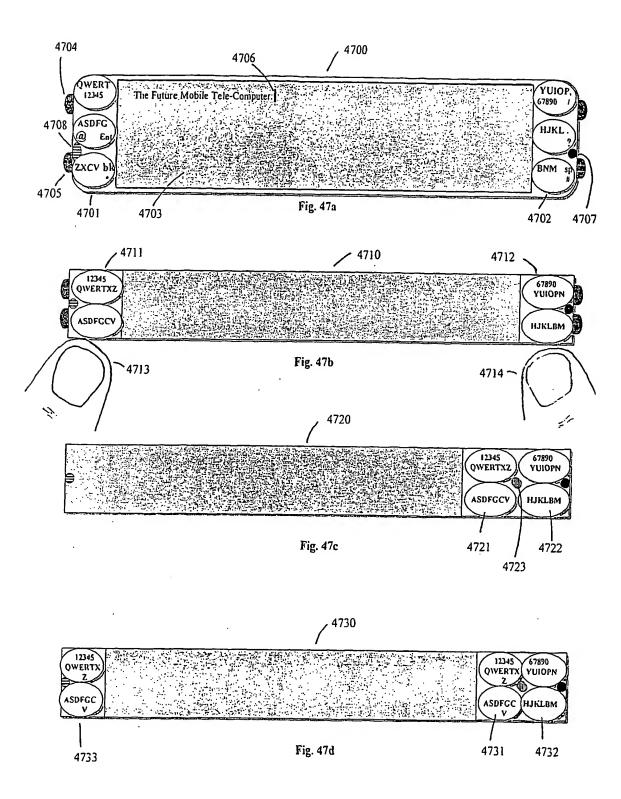


Fig. 46c



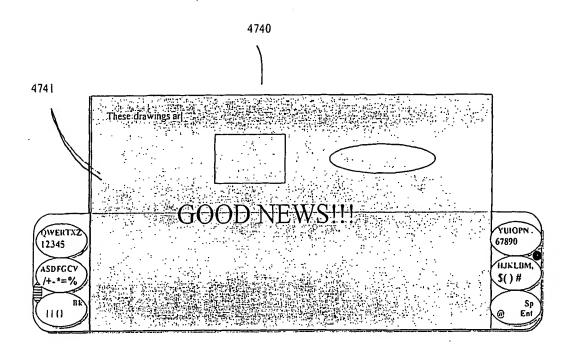
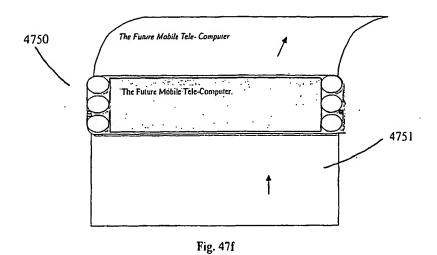
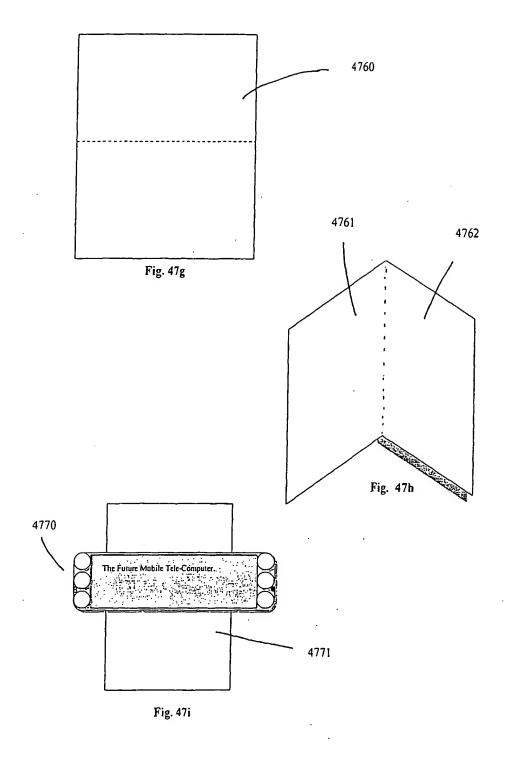
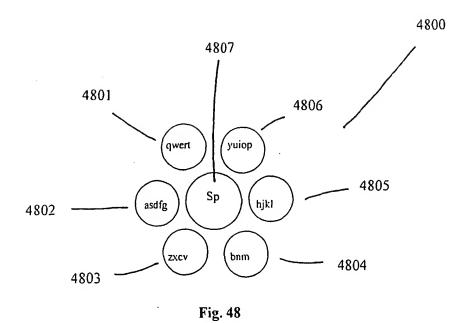
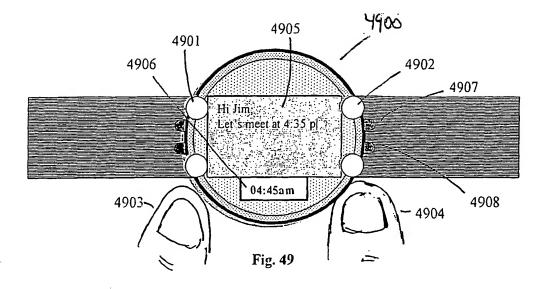


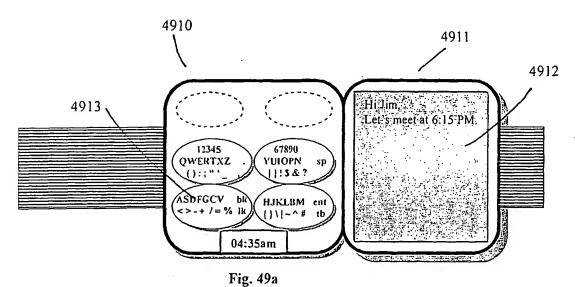
Fig. 47e











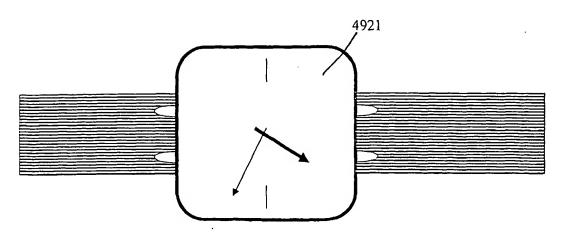
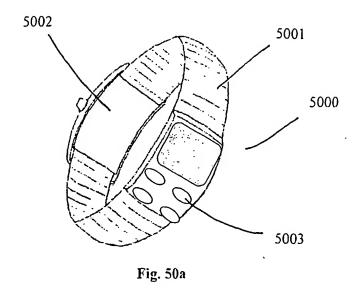
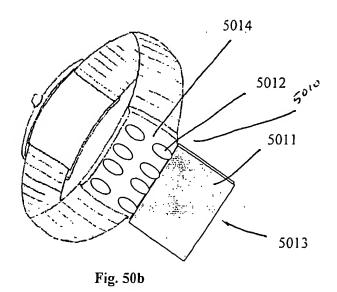


Fig. 49b





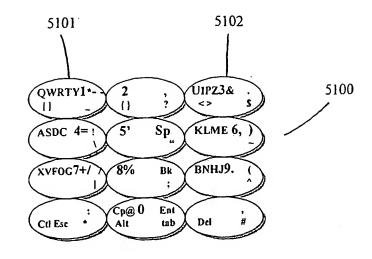


Fig. 51 5112 5110 5111 5115 UIPZ3& QWRTY1* gwrty <> uipz[] KLME 6,) ASDC 4=! Sp asdc klme 5113 . XVFOG7+/ 8% Bk BNHJ9. - 5114 Cp@ 0 Ent Del Ctl Esc

Fig. 51a

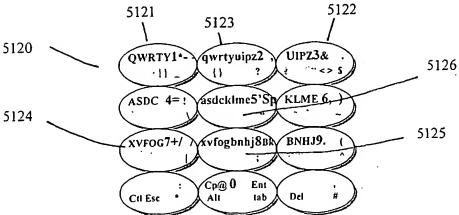


Fig. 51b

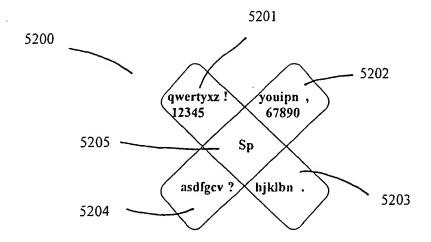
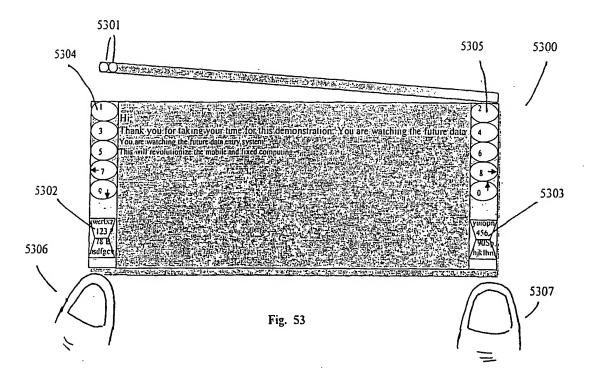


Fig. 52



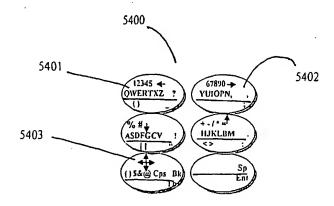
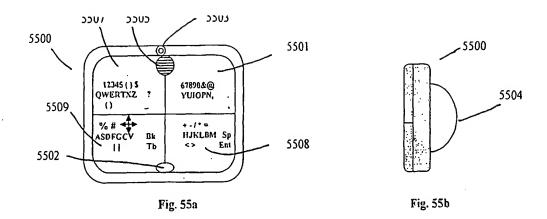


Fig. 54



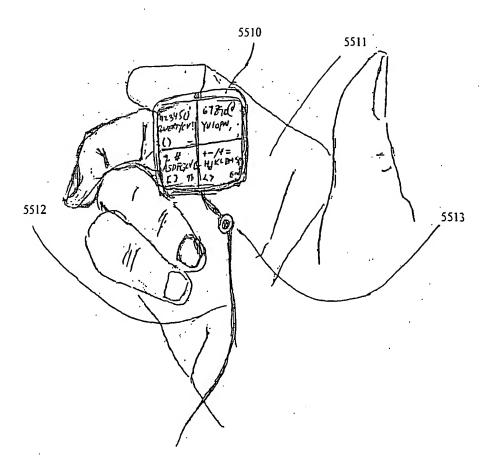


Fig. 55c

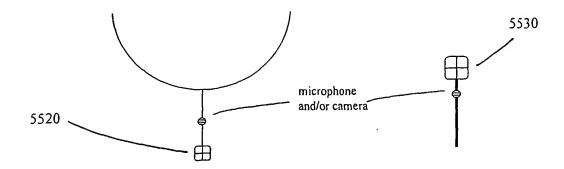


Fig. 55d

Fig. 55e

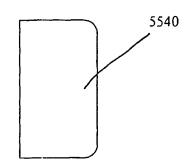


Fig. 55f

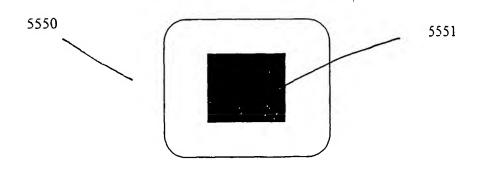
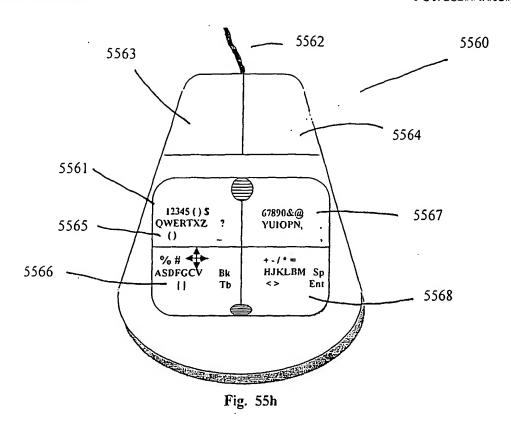
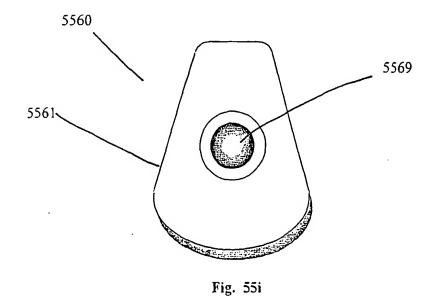


Fig. 55g





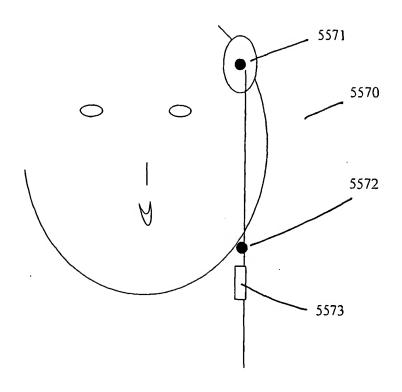


Fig. 55j

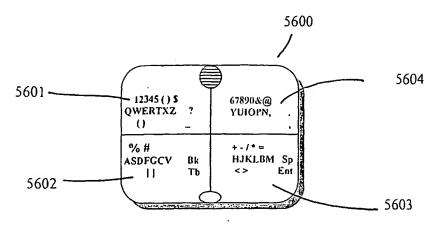


Fig. 56

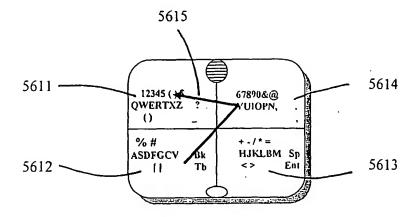


Fig. 56a

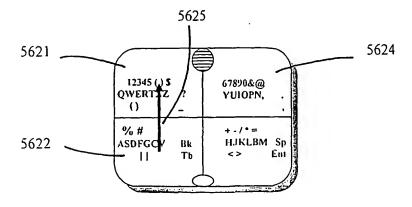
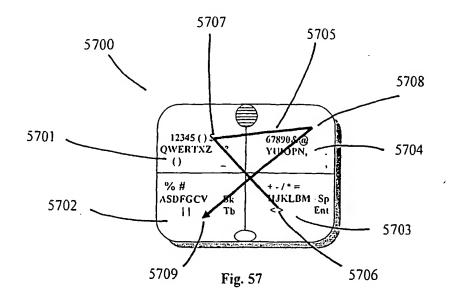


Fig. 56b



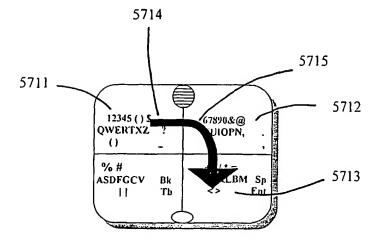


Fig. 57a

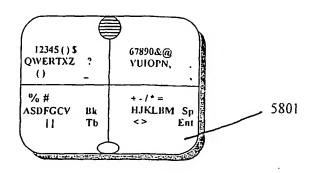


Fig. 58a

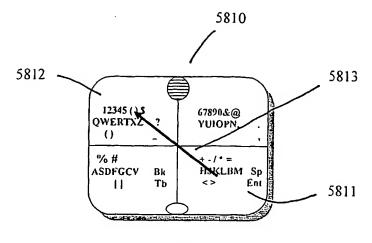


Fig. 58b

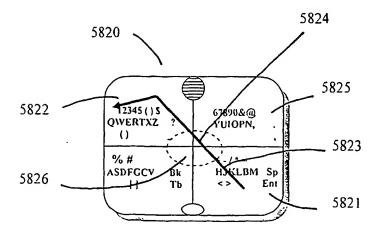


Fig. 58c

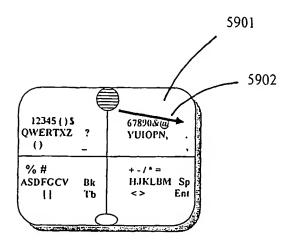
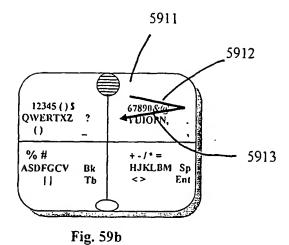


Fig. 59a



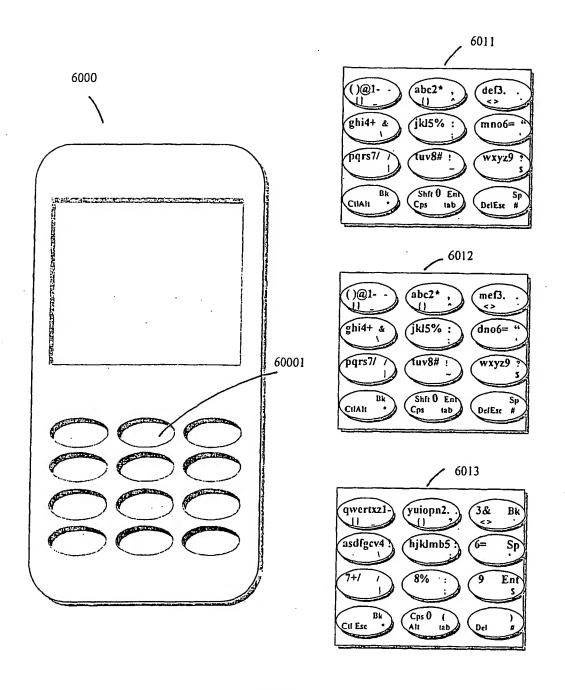
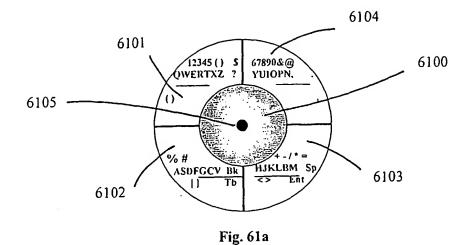


Fig. 60



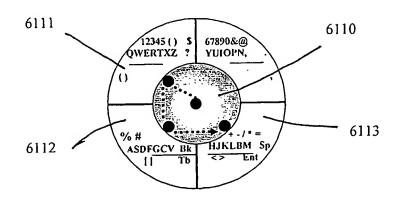


Fig. 61b

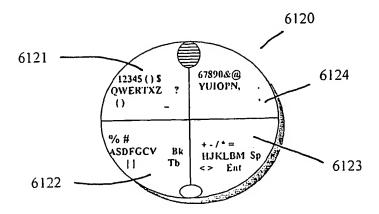


Fig. 61c

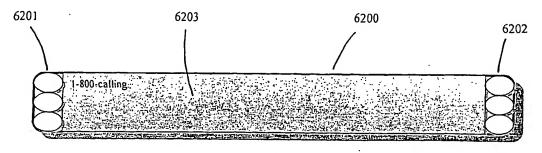


Fig. 62a

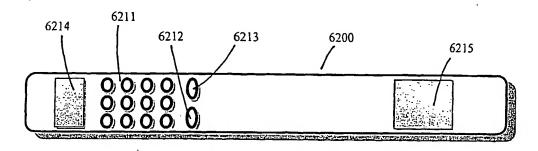


Fig. 62b

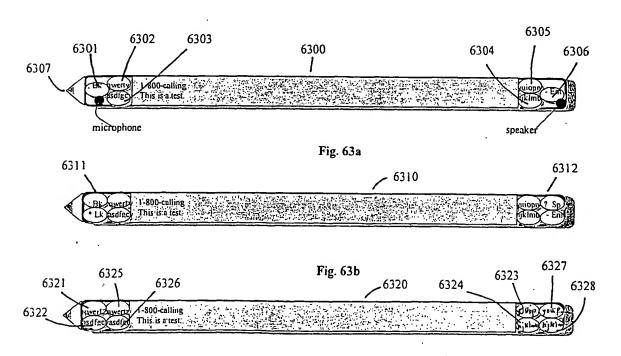


Fig. 63c

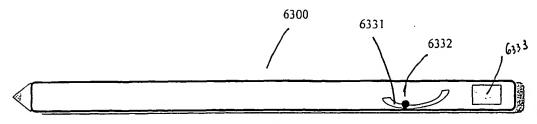


Fig. 63d

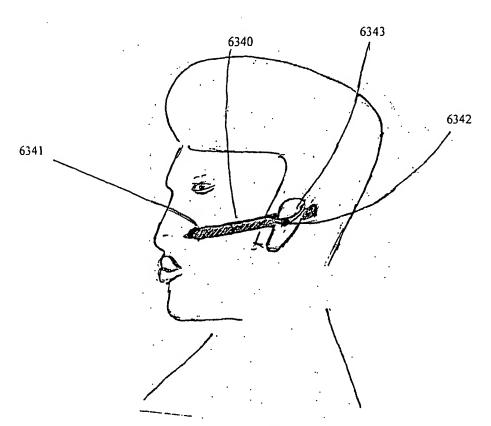


Fig. 63e

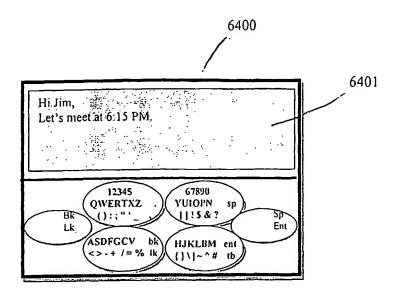


Fig. 64a

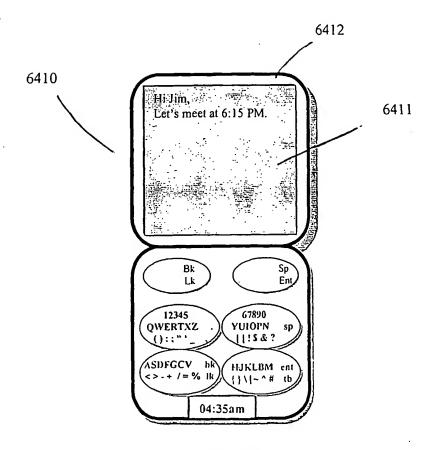


Fig. 64b

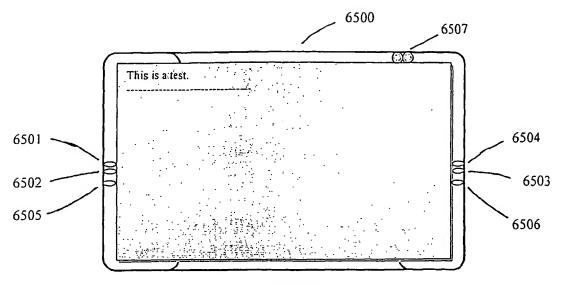


Fig. 65a

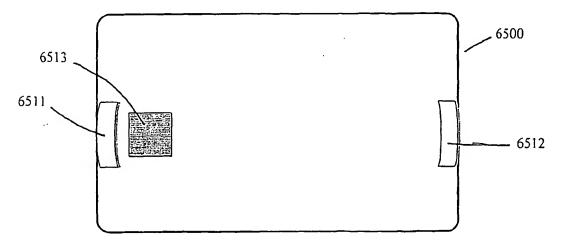


Fig. 65b

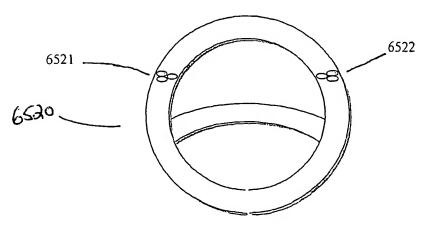


Fig. 65c

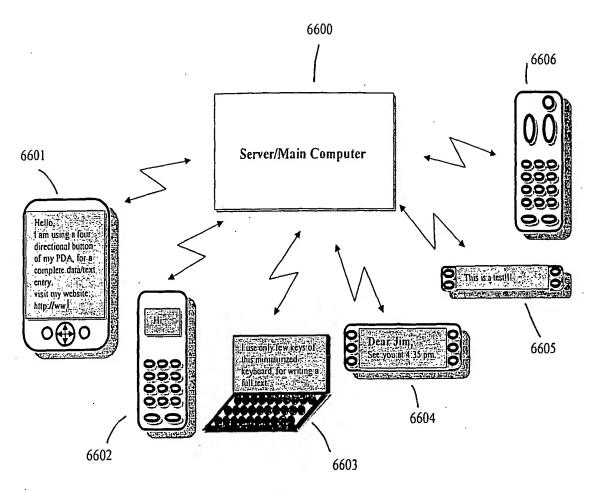


Fig. 66

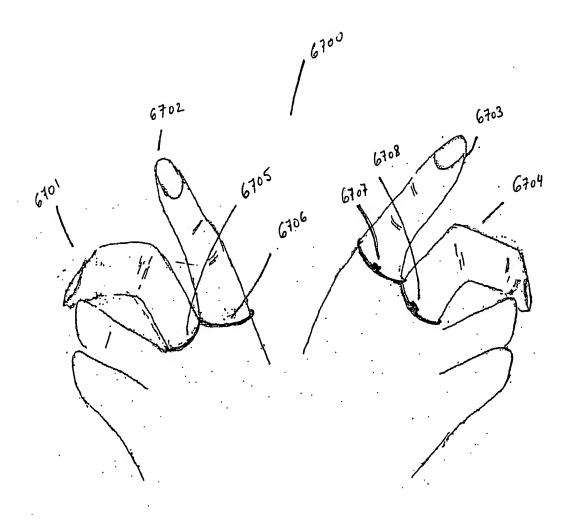
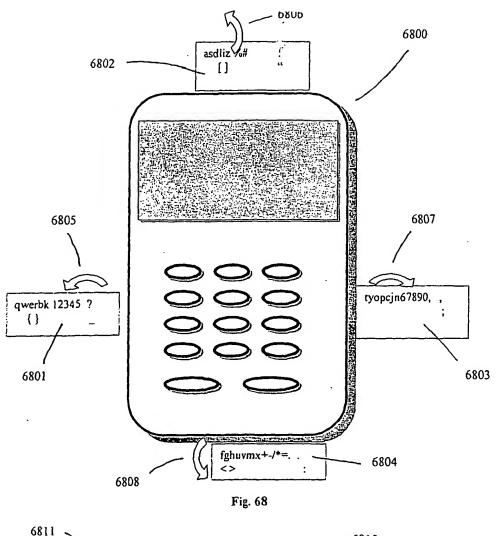


Fig. 67



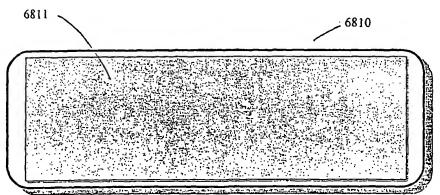
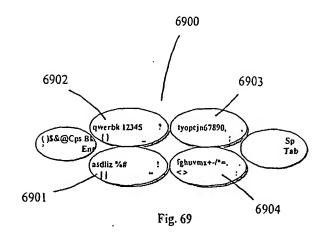
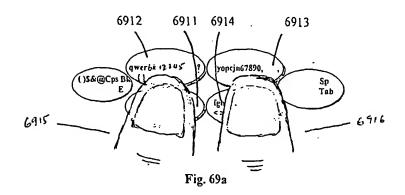
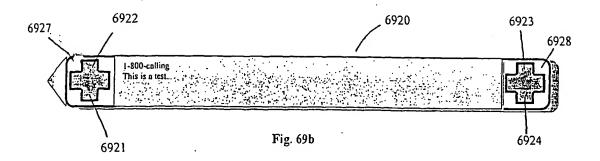


Fig. 68a







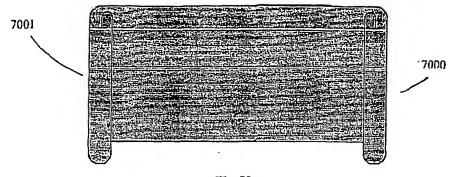


Fig. 70a

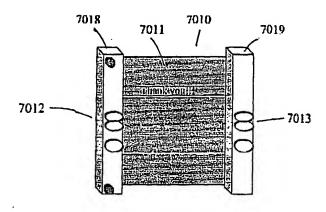


Fig. 70b

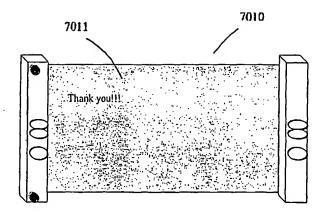


Fig. 70c

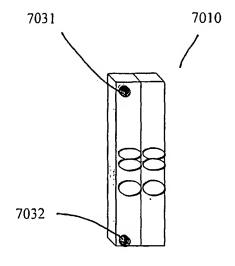


Fig. 70d

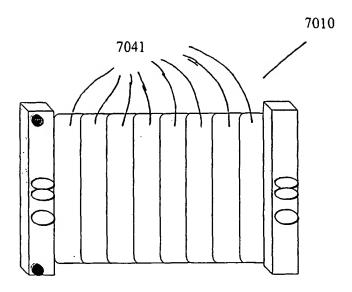


Fig. 70e

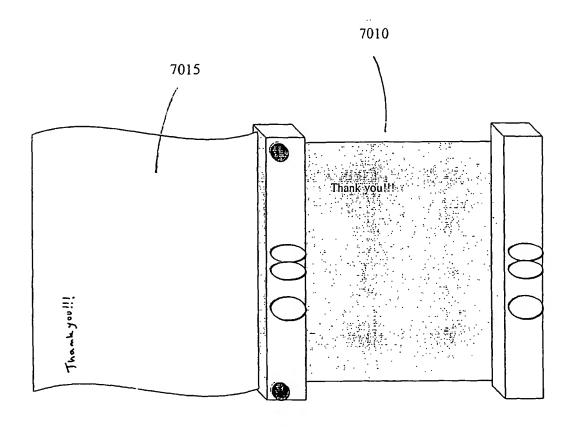


Fig. 70f

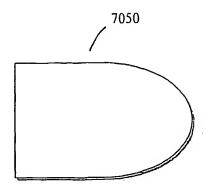


Fig. 70g

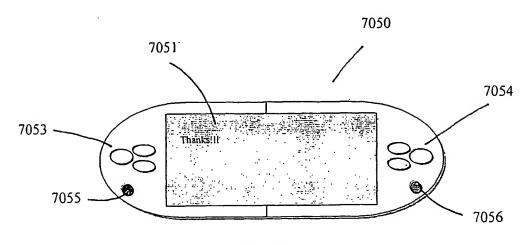
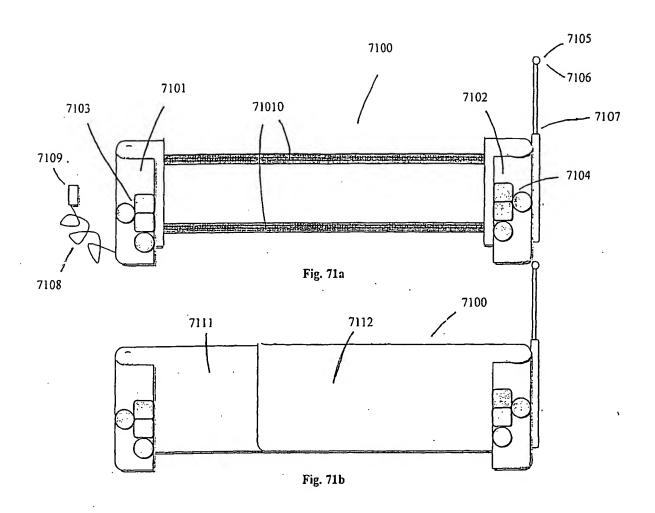
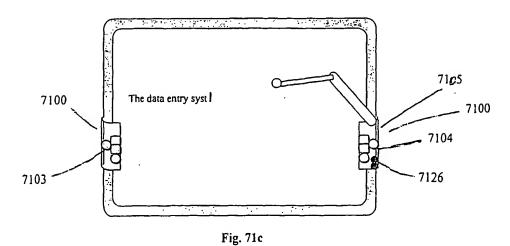


Fig. 70h





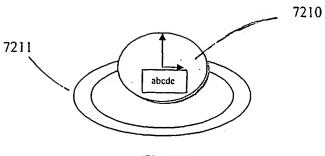


Fig. 72a

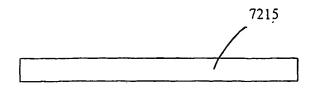


Fig. 72b

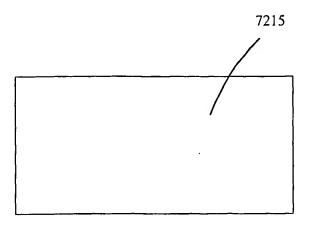


Fig. 72c

INTERNATIONAL SEARCH REPORT

International application No

		PC17US04/12	2082			
A. CLASSIFICATION OF SUBJECT MATTER						
IPC(7) : G09G 05/00						
US CL	: 345/168, 169, 172	· · · · · · · · · · · · · · · · · · ·				
According to International Patent Classification (IPC) or to both national classification and IPC						
	DS SEARCHED					
	cumentation searched (classification system followed by	classification symbols)				
U.S. : 34	15/168, 169, 172					
Documentatio	on searched other than minimum documentation to the	extent that such documents are inclu-	ded in the fields seamhed			
_ vousionaliu	Caracian in institution occurrentation to the t	are mountained are more	aw noise scarciffu			
	ta base consulted during the international search (name	of data base and, where practicable	, search terms used)			
Please See Co	ontinuation Sheet					
C. DOCI	JMENTS CONSIDERED TO BE RELEVANT	· · · · · · · · · · · · · · · · · · ·				
Category *	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.			
X	US 6,295,052 B1 (KATO et al) 25 September 2001 (1			
	column 20, line 67 and column 22, line 66 - column 2					
A	US 4,531,119 (NAKAYAMA et al) 23 July 1985 (23		1			
		4				
A	US 5,790,103 (WILLNER) 04 August 1998 (04.08.1	998).	1			
	TIP E OCT 140 (TATOTTE OF T	000)				
A	US 5,867,149 (JAEGER) 02 February 1999 (02.02.1	(עעע).	1			
A	IIS 6 326 952 R1 (AMPO at al) 04 December 2001 ('04 12 2001\	1			
Α.	US 6,326,952 B1 (AMRO et al) 04 December 2001 (04.12.2001).		1			
A	US 6,445,381 B1 (CHOU) 03 September 2002 (03.0)	9.2002).	1			
	(5).0	•				
	}					
	r documents are listed in the continuation of Box C.	See patent family annex.				
• s	pecial categories of cited documents:		the international filing date or priority			
"A" document	t defining the general state of the art which is not considered to be	date and not in conflict with the principle or theory underlying	e application but cited to understand the the Invention			
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"P" document published prior to the international filing date but later than the "&" document member of the same patent family priority date claimed						
	Date of the actual completion of the international search Date of mailing of the international search report					
	004 (05.08.2004)	Z3 AL	JG 2004			
	ailing address of the ISA/US	Authorized officer	naif			
Mail Stop PCT, Attn: ISA/US Commissioner for Patents		Bipin Shalwala	hart			
P.C	D. Box 1450					
	exandria, Virginia 22313-1450	Telephone No. (703) 305-4700	-9			
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INTERNATIONAL SEARCH REPORT	PCT/US04/12082				
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Continuation of B. FIELDS SEARCHED Item 3: EAST:					
search terms: keypad, keyboard, key, button, pushbutton, symbol, alphabet, alphabetic, numeral, numeric, command, punctuation, finger, digit, recognition, sense, detect, multi-function key					

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